



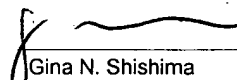
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December 16, 2003

| CERTIFICATE OF MAILING 37 C.F.R. 1.8 | |
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| I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below: | |
| December 16, 2003 |  |
| Date | Gina N. Shishima |

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/667,126 entitled "METHODS AND COMPOSITIONS FOR ISOLATING SMALL RNA MOLECULES" – Richard C. Conrad*
Our reference: AMBI:086US

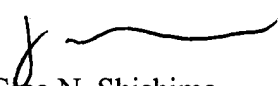
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references A1-A6, B1, and C1-C16.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/AMBI:086US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,


Gina N. Shishima
Reg. No. 45,104

GNS/kmv
Encl.: as noted

25366230.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Richard C. Conrad

Serial No.: 10/667,126

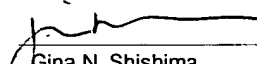
Filed: September 19, 2003

For: METHODS AND COMPOSITIONS FOR
ISOLATING RNA MOLECULES

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: AMBI:086US

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| Date | Gina N. Shishima |

INFORMATION DISCLOSURE STATEMENT

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/AMBI:086US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,



Gina N. Shishima
Reg. No. 45,104
Attorney for Applicant

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Date: December 16, 2003

Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

AMBI:086US

10/667,126

List of Patents and Publications for Applicant's

Applicant

Richard C. Conrad

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

September 19, 2003

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|----------|------------------------|-------|-----------|---------------------|
| | A1 | 5,155,018 | 11/13/92 | Gillespie and Cuddy | 435 | 91 | 7/10/91 |
| | A2 | 5,234,809 | 8/10/93 | Boom <i>et al.</i> | 435 | 91 | 7/1/91 |
| | A3 | 5,990,302 | 11/23/99 | Kuroita <i>et al.</i> | 536 | 25.4 | 7/11/97 |
| | A4 | 6,043,354 | 3/28/00 | Hillebrand and Bendzko | 536 | 25.42 | 7/16/96 |
| | A5 | 6,110,363 | 8/29/00 | Hillebrand and Bendzko | 210 | 198.2 | 4/8/99 |
| | A6 | 6,180,778 | 1/30/01 | Bastian <i>et al.</i> | 536 | 25.4 | 8/8/96 |

Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|---------|---------|-------|-----------|--------------------|
| | B1 | EP 0 389 063 | 3/22/90 | Europe | | | |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

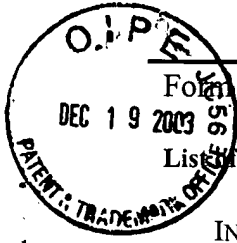
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| | C1 | Boom <i>et al.</i> , "Rapid and simple method for purification of nucleic acids," <i>J. Clin. Microbiol.</i> , 28(3):495-503, 1990. |
| | C2 | Carrington <i>et al.</i> , "Role of microRNAs in plant and animal development," <i>Science</i> , 301:336-338, 2003. |
| | C3 | Chomczynski and Sacchi, "Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction," <i>Anal. Biochem.</i> , 162(1):156-159, 1987. |
| | C4 | Fire <i>et al.</i> , "Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Nature</i> , 391(6669):806-811, 1998. |
| | C5 | Hamilton and Baulcombe, "A species of small antisense RNA in posttranscriptional gene silencing in plants," <i>Science</i> , 286(5441):950-952, 1999. |
| | C6 | Lagos-Quintana <i>et al.</i> , "Identification of novel genes coding for small expressed RNAs," <i>Science</i> , 294(5543):853-858, 2001. |

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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.


 Folio PTO-1449 (modified)

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.

AMBI:086US

Serial No.

10/667,126

Applicant

Richard C. Conrad

Filing Date:

September 19, 2003

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| | C7 | Lau <i>et al.</i> , "An abundant class of tiny RNAs with probable regulatory roles in <i>Caenorhabditis elegans</i> ," <i>Science</i> , 294(5543):858-862, 2001. |
| | C8 | Lee and Ambros, "An extensive class of small RNAs in <i>Caenorhabditis elegans</i> ," <i>Science</i> , 294(5543):862-864, 2001. |
| | C9 | Lee <i>et al.</i> , "The <i>C. elegans</i> heterochronic gene <i>lin-4</i> encodes small RNAs with antisense complementarity to <i>lin-4</i> ," <i>Cell</i> , 75(5):843-854, 1993. |
| | C10 | Pasquinelli <i>et al.</i> , "Conservation of the sequence and temporal expression of <i>let-7</i> heterochronic regulatory RNA," <i>Nature</i> , 408(6808):86-89, 2000. |
| | C11 | Patterson and Guthrie, "An essential yeast snRNA with a U5-like domain is required for splicing in vivo," <i>Cell</i> , 49(5):613-624, 1987. |
| | C12 | Peacock and Dingman, "Resolution of multiple ribonucleic acid species by polyacrylamide gel electrophoresis" <i>Biochemistry</i> , 6(6):1818-1827, 1967. |
| | C13 | Tang <i>et al.</i> , "A biochemical framework for RNA silencing in plants," <i>Genes Dev.</i> , 17(1):49-63, 2003. |
| | C14 | Timmons, "The long and short of siRNAs," <i>Mol. Cell.</i> , 10(3):435-437, 2002. |
| | C15 | Zamore <i>et al.</i> , "RNAi: double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals," <i>Cell</i> , 101(1):25-33, 2000. |
| | C16 | "Silencer siRNA Construction Kit: large scale synthesis and purification of siRNAs," Ambion, Inc., www.ambion.com , p.1-10, 2003. |

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